

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)
6056 PApplication Number
09/494,240Applicant
Pope, et al.Filing Date
January 30, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	3,102,536	9/6/1963	Rose et al	128	92	
↑	3,584,318	6/15/1971	Scales et al	3	1	
	3,658,056	4/25/1972	Huggler et al	128	92	
	3,683,421	8/15/1972	Martinie	3	1	
	3,723,995	4/3/1973	Baumann	3	1	
	3,864,758	2/11/1975	Yakich	3	1	
	3,871,031	3/18/1975	Boutin	3	1	
	3,894,297	7/15/1975	Mittelmeler	3	1	
	3,977,026	8/31/1976	Battault	3	1.91	
	4,005,495	2/1/1977	Locke et al	3	1.91	
	4,031,570	6/28/1977	Frey	3	1/1.912	
	4,115,875	9/26/1978	Rambert et al	3	1.913	
	4,126,924	11/28/1978	Akins et al	29	423	
	4,164,794	8/21/1979	Spector et al	3	1.912	
	4,166,292	9/4/1979	Bokros	3	1.91	
	4,214,322	7/29/1980	Kraus	3	1.91	
	4,206,517	6/10/1980	Pappas et al	3	1.91	
	4,349,922	9/21/1982	Agee	3	1.91	
	4,454,612	6/19/1984	McDaniel et al	3	1.913	
	4,535,486	8/20/1985	Roberts et al	623	22	
↓	4,547,910	10/22/1985	Roberts et al	623	18	
BP	4,687,487	8/18/1987	Hintermann	623	18	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BP	"Glass Coating for Artificial Joints Allows Bone Bonding" article from Internet (3 pages).
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EXAMINER <i>Brian Pellegrino</i>	DATE CONSIDERED <i>7/5/01</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



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Applicant Pope, et al.		
Filing Date January 30, 2000		Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	4,731,088	3/15/1988	Collier	623	22	
↑	4,784,662	11/15/1988	Muller	623	22	
	4,813,959	3/21/1989	Cremascoli	623	22	
	4,822,368	4/18/1989	Collier	623	22	
	4,840,631	1/20/1989	Mathys	623	22	
	4,842,605	6/27/1989	Sonnerat et al	623	22	
	4,846,839	7/11/1989	Nolles	623	18	
	4,865,606	9/12/1989	Rehder	623	20	
	4,878,917	11/7/1989	Kranz et al	623	18	
	4,922,898	5/8/1990	Dunn	606	85	
	4,957,510	9/18/1990	Cremascoli	623	23	
	4,959,066	9/25/1990	Dunn et al	606	89	
	4,969,910	11/13/1990	Frey et al	623	22	
	5,092,898	3/3/1992	Bekki et al	623	22	
	5,002,578	3/26/1991	Luman	623	23	
	5,002,579	3/26/1991	Copf et al	623	23	
	5,002,580	3/26/1991	Noble et al	623	23	
	5,002,581	3/26/1991	Paxson et al	623	23	
	5,047,060	9/10/1991	Henssge et al	623	23	
	5,047,062	9/10/1991	Pappas et al	623	23	
✓	5,080,685	1/14/1992	Bolesky et al	623	23	
BP	5,108,451	4/28/1992	Forte	623	23	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BP	"Protecting Artificial Joints" article from Internet (3 pages).
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EXAMINER <i>Brian Pellegrino</i>	DATE CONSIDERED <i>7/5/01</i>
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,108,451	4/28/1992	Epte	623	23	
BP	5,108,452	4/28/1992	Fallin	623	23	
	5,116,380	5/26/1992	Hewka et al	623	23	
	5,133,763	7/28/1992	Mullers	623	22	
	5,152,794	10/6/1992	Davidson	623	16	
	5,152,795	10/6/1992	Solshansl et al	623	16	
	5,156,624	10/20/1992	Barnes	623	22	
	5,163,963	11/17/1992	Hewka et al	623	23	
	5,181,926	1/26/1993	Koch et al	623	22	
	5,181,928	1/26/1993	Bolesky et al	623	23	
	5,192,323	3/9/1993	Shetty et al	623	16	
	5,258,033	11/2/1993	Lawes et al	623	23	
	5,284,483	2/8/1994	Johnson et al	606	86	
	5,310,408	5/10/1994	Schryver et al	623	22	
	5,330,481	7/19/1994	Hood et al	606	99	
	5,358,532	10/25/1994	Evans et al	623	22	
	5,370,694	12/6/1994	Davidson	623	16	
	5,380,547	1/10/1995	Higgins	427	2.26	
	5,405,394	4/11/1995	Davidson	623	18	
	5,507,814	4/16/1996	Gilbert et al	623	16	
	5,507,824	4/16/1996	Lennox	623	22	
BP	5,507,830	4/16/1996	DeMane et al	623	23	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Baker, N., "Fixation and Prosthetic Joints" article from <http://www.ncsu.edu> website (1998).

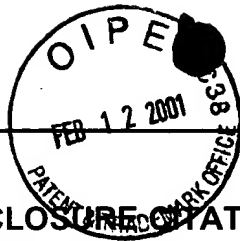
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	5,514,184	5/7/1996	Dol et al	623	23	
↑	5,549,700	8/27/1996	Graham et al	623	22	
	5,571,195	11/5/1996	Johnson	623	18	
	5,571,203	11/5/1996	Masini	623	23	
	5,581,233	1/7/1997	Kelman et al	623	16	
	5,641,323	6/24/1997	Caldarise	623	22	
	5,645,601	7/8/1997	Pope et al	623	18	4/16/1996
	5,676,704	10/14/1997	Ries et al	623	18	11/28/1995
	5,702,448	12/30/1997	Buechel et al	623	16	7/5/1995
	5,702,473	12/30/1997	Albrektsson et al	623	22	12/21/1994
	5,702,487	12/30/1997	Averill et al	623	23	4/23/1996
	5,728,161	3/17/1998	Camino et al	623	19	6/8/1995
	5,800,560	9/1/1998	Draenert	623	23	5/15/1997
	5,861,042	1/19/1999	Buechel et al	623	16	4/1/1997
	5,868,796	2/9/1999	Buechel et al	623	16	8/12/1997
	5,879,404	5/9/1999	Bateman et al	623	22	4/21/1997
	5,879,407	3/9/1999	Waggener	623	22	7/17/1997
	5,876,459	5/2/1999	Powell	623	18	8/30/1996
✓	5,879,397	3/9/1999	Kalberer et al	623	22	10/17/1994
BP	5,879,405	3/9/1999	Ries et al	623	22	5/23/1997
	5,879,407	3/9/1999	Waggener	623	22	7/17/1997
BP	5,906,644	5/25/1999	Powell	623	23	6/30/1997
BP	5,888,208	5/30/1999	Ro	623	23	6/27/1997

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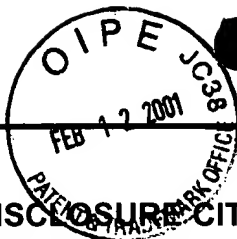
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Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	4,708,496	11/24/1987	McPherson	384	303	
↑	4,756,631	7/12/1988	Jones	384	95	
	4,922,298	2/12/1991	Deutchman et al	427	38	
	5,055,318	10/8/1981	Deutchmann et al	427	38	
	5,092,687	3/3/1992	Hall	384	303	
	5,368,398	11/29/1994	Damm et al	384	303	
	5,364,192	11/15/1994	Damm et al	384	420	
	5,560,716	10/1/1996	Tank et al	384	492	
↓	5,641,921	6/24/1997	Dennis et al	75	230	
BP	5,898,388	4/27/1999	Hoffman et al	340	870.13	3/13/1998

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
BP	GB 2 290 326	12/20/1995	United Kingdom	E21B	10/46	YES	NO
BP	GB 2 283 772	5/15/1995	United Kingdom	E21B	10/46	X	
BP	GB 2 290 327	12/20/1995	United Kingdom	E21B	10/46	X	
BP	GB 2 290 328	12/20/1995	United Kingdom	E21B	10/46	x	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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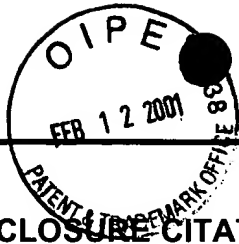
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	4,058,856	11/22/1977	Doerre et al	3	1.91	
↑	4,693,722	9/15/1987	Wall	623	18	
	4,259,072	3/31/1981	Hirabayashi et al	433	173	
	4,332,037	6/1/1982	Esformes et al	3	1.91	
	5,304,192	5/19/1994	Crouse	606	181	
	5,401,269	3/28/1995	Buttner-Janz et al	623	17	
	5,441,488	8/15/1995	Shimura et al	604	265	
	5,496,318	3/5/1996	Howland et al	606	61	
	5,549,690	8/27/1996	Hollister et al	623	21	
	5,645,605	7/8/1997	Klawitter	623	21	
	5,725,582	5/10/1998	Bevan et al	623	17	
	5,769,891	7/23/1998	Clayton	623	10	
	5,108,432	4/28/1992	Gustavson	623	16	
↓	5,128,146	7/7/1992	Hirayama et al	424	484	
BP	5,133,757	7/28/1992	Sioshansi et al	623	18	
	5,192,323	3/9/1993	Shetty et al	623	16	
BP	5,308,412	5/3/1994	Shetty et al	148	238	
BP	5,326,362	7/5/1994	Shetty et al	623	66	
BP	5,330,826	7/19/1994	Taylor et al	428	216	
	5,370,694	12/6/1994	Davidson	623	16	
BP	5,372,660	12/13/1994	Davidson et al	148	421	
BP	5,413,814	5/9/1995	Bowen et al	427	262	
BP	5,383,934	1/24/1995	Armini et al	623	16	
BP	5,415,704	5/16/1995	Davidson	148	316	

EXAMINER

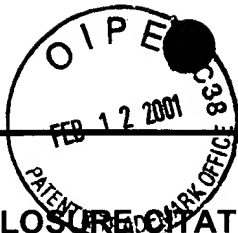
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	4,865,603	9/12/1989	Nolles	623	18	
↑	5,429,883	7/4/1995	Sasaki et al	428	678	
	5,478,906	12/26/1995	Howard Jr.	526	352	
	5,498,302	3/12/1996	Davidson	148	317	
	5,593,719	1/14/1997	Dearnaley et al	427	2.26	
	5,605,938	2/25/1997	Roufa et al	514	59	
	5,824,651	10/20/1998	Nanci et al	514	21	
	Des. 265,204	7/29/1982	Turchan et al	D15	130	
	4,651,374	3/24/1987	Turchan	10	130	
	4,761,844	8/9/1988	Turchan	10	140	
	4,934,040	6/19/1990	Turchan	29	566	
	4,964,766	10/23/1990	Turchan et al	409	225	
	5,054,682	10/8/1991	Mistry	228	194	
	5,413,438	5/9/1995	Turchan	409	66	
	5,429,459	7/4/1995	Palm	409	66	
	5,508,368	4/16/1996	Knapp et al	427	534	
	5,515,500	5/14/1996	Liu et al	423	466	
	Re 35,255	5/28/1996	Turchan	409	74	
	5,549,190	8/27/1996	Turchan	198	403	
	5,554,415	9/10/1996	Turchan et al	427	248	
	5,620,285	4/15/1997	Turchan	409	132	
	5,620,754	4/15/1997	Turchan et al	427	554	
↓	5,621,965	8/22/1997	Turchan	29	559	
BP	5,635,243	7/3/1997	Turchan et al	427	248	

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January 30, 2000Group Art Unit
3738**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	4,055,862	11/1/1977	Farling	3	1.91	
↑	4,470,158	9/11/1984	Pappas et al	3	1.911	
	4,714,473	12/22/1987	Bloebaum	623	20	
	4,808,185	2/28/1989	Penenberg et al	623	20	
	4,892,547	1/9/1990	Brown	623	20	
	4,944,756	7/31/1990	Kenna	623	20	
	4,959,071	9/25/1990	Brown et al	623	20	
	4,964,868	10/23/1990	Bloebaum	623	20	
	4,979,957	12/25/1990	Hodorek	623	20	
	5,019,103	5/28/1991	Van Zile et al	623	20	
	5,037,423	8/6/1991	Kenna	606	88	
	5,037,439	8/6/1991	Albrektsson et al	623	20	
	5,092,895	3/3/1992	Albrektsson et al	623	20	
	5,133,758	7/28/1992	Hollister	623	20	
	5,171,282	12/15/1992	Pequignot	623	20	
	5,171,283	12/15/1992	Pappas et al	623	20	
	5,194,066	3/16/1993	Van Zile	623	20	
	5,326,361	7/5/1994	Hollister	623	20	
	5,330,532	7/19/1994	Ranawat	623	20	
	5,358,529	10/25/1994	Davidson	623	20	
↓	5,370,700	12/6/1994	Sarkisian et al	623	20	
BP	5,411,555	5/2/1995	Nieder	623	20	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)~~"67th Annual Meeting Proceedings", American Academy of Orthopaedic Surgeons, vol. 1 (March 15-19, 2000).~~

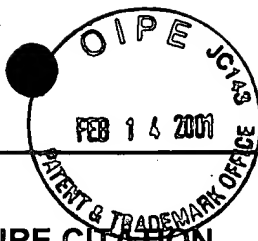
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BP	5,514,193	5/7/1996	Epstein et al	623	20	
	5,669,913	9/23/1997	Zobel	606	85	
	5,755,800	5/26/1998	O'Neill et al	623	20	
	5,766,255	6/16/1998	Slamin et al	623	20	
	5,824,101	10/20/1998	Pappas	623	20	
	5,895,388	4/20/1989	Zobel	606	85	
BP	5,197,987	5/30/1993	Koch et al	623	20	
	3,864,400	2/4/1975	Pope	260	605R	
	4,547,910	10/22/1989	Roberts et al	623	18	
BP	4,618,269	10/21/1986	Badrak et al	384	95	
	4,759,350	7/26/1988	Dunn et al	128	92	
	5,133,757	7/28/1992	Sioshansi et al	623	18	
BP	5,154,023	10/13/1992	Sioshani	51	323	
	5,326,362	7/5/1984	Shetty et al	623	66	
BP	5,333,954	8/2/1994	Noguchi et al	384	26	
BP	5,358,525	10/25/1994	Fox et al	623	18	
BP	5,360,341	11/1/1994	Abramowitz	433	215	
	5,372,660	12/43/1994	Davidson et al	148	421	
BP	5,380,547	1/10/1995	Higgins	427	2.26	
	5,383,934	1/24/1995	Armini et al	623	16	
BP	5,391,422	2/21/1995	Omori et al	428	212	
BP	5,414,049	5/9/1995	Sun et al	525	333.7	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

~~DeVries, "A Survey of High Pressure Effects of Solids", WADC Technical Report 59-341 (October 1960)~~

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BP	5429,459	7/4/1995	Palm	409	66	
	5,429,883	7/4/1995	Sasaki et al	428	678	
BP	5,451,365	9/19/1995	Barsoum	419	10	
BP	5,458,827	10/17/1995	Holly	264	400	
BP	5,485,496	1/16/1996	Lee et al	378	64	
	5,498,302	3/12/1996	Davidson	148	317	
BP	5,507,804	4/16/1996	Llanos	623	11	
	5,514,182	5/7/1996	Shea	623	18	
	5,530,072	6/25/1996	Shirodkar	525	333.8	
	5,685,671	11/11/1997	Packer et al	407	54	
	6,077,148	6/20/2000	Klein et al	451	11	2/26/2000
	5,716,400	2/10/1998	Davidson	623	2	
	5,725,573	3/10/1998	Dearnaley et al	623	2	
	5,782,910	7/21/1998	Davidson	623	2	
	5,824,062	10/20/1998	Patke et al	623	2	
	5,830,539	11/3/1998	Yan et al	427	551	
	5,855,601	1/5/1999	Besler et al	623	2	
	5,928,131	7/27/1999	Prem	600	16	
	5,981,827	11/9/1999	Devlin et al	623	16	
	6,007,577	12/28/1999	Vanney et al	623	2	
	6,045,877	4/4/2000	Gleason et al	457	522	7/27/1998
BP	6,045,497	4/4/2000	Schweich Jr. et al	600	16	7/29/1998

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Docket Number (Optional)
6056 PApplication Number
09/494,240Applicant
Pope, et al.Filing Date
January 30, 2000Group Art Unit **3738**

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	4,822,355	4/19/1989	Bhuvaneshwar	623	2	
BP	5,258,022	11/2/1993	Davidson	623	2	
BP	5,387,247	2/7/1995	Vallana et al	623	66	
BP	5,605,714	2/25/1997	Dearnaley et al	427	2.24	
BP	5,641,324	6/24/1997	Bokros et al	623	2	
BP	5,676,632	10/14/1997	Davidson	600	16	
BP	5,677,061	10/14/1997	Ely et al	428	408	
BP	5,683,442	11/4/1997	Davidson	607	116	
BP	5,685,306	11/11/1997	Davidson	128	658	
BP	5,690,670	11/25/1997	Davidson	606	198	
BP	5,693,090	12/2/1997	Unsworth et al	623	2	
BP	5,713,947	2/3/1998	Davidson	623	1	
BP	4,104,344	8/1/1978	Pope et al	264	42	
BP	4,163,769	8/7/1979	Pope et al	264	42	
BP	4,592,422	7/3/1986	Dennis	175	329	
BP	4,604,106	8/5/1986	Hall et al	51	293	
BP	4,694,918	9/22/1987	Hall	175	329	
BP	4,729,440	3/8/1988	Hall	175	107	
BP	4,738,322	4/19/1988	Hall et al	175	329	
BP	4,784,023	11/15/1988	Dennis	76	108A	
BP	4,789,251	12/6/1988	McPherson et al	384	317	
BP	4,861,350	8/29/1989	Phaal et al	51	307	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	4,866,885	9/19/1989	Dodsworth	51	293	
BP	5,011,515	5/30/1991	Frushour	51	307	
BP	5,037,451	8/6/1991	Burnand et al	51	293	
BP	5,054,246	10/8/1991	Phaal et al	51	204	
	5,092,687	3/3/1992	Hall	384	303	
BP	5,120,327	6/9/1992	Dennis	51	293	
	5,127,923	7/7/1992	Bunting et al	51	293	
BP	5,154,245	10/13/1992	Waldenstrom et al	175	420.2	
	5,217,081	6/8/1993	Waldenstrom et al	175	420.2	
	5,248,317	9/28/1993	Tank et al	51	293	
	5,264,283	11/23/1993	Waldenstrom et al	428	408	
	5,335,738	8/9/1994	Waldenstrom et al	175	420.2	
	5,348,108	9/20/1994	Scott et al	175	432	
	5,351,772	10/4/1994	Smith	175	428	
	5,355,750	10/18/1994	Scott et al	76	108.2	
	5,355,969	10/18/1994	Hardy et al	175	432	
	5,370,717	12/6/1994	Lloyd et al	51	293	
	5,376,444	12/27/1994	Grotenpass et al	428	336	
	5,379,854	1/10/1995	Dennis	175	434	
	5,421,425	6/6/1995	Griffin	175	432	
	5,435,403	7/25/1995	Tibbits	175	432	
BP	5,449,048	9/12/1995	Thigpen et al	175	430	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	5,469,927	11/28/1995	Griffin	175	432	
	5,486,137	1/23/1996	Flood et al	451	540	
	5,492,188	2/20/1996	Smith et al	175	432	
	5,494,477	2/27/1996	Flood et al	451	540	
	5,499,688	3/19/1996	Dennis	175	426	
	5,512,235	4/30/1996	Cerutti et al	419	10	
	5,544,713	8/13/1996	Dennis	175	434	
	5,564,511	10/15/1996	Frushour	175	431	
	5,566,779	10/22/1996	Dennis	175	426	
	5,590,727	7/7/1997	Tank et al	175	374	
	5,590,728	7/7/1997	Matthias et al	175	432	
	5,590,729	1/7/1997	Cooley et al	175	432	
	5,601,477	2/11/1997	Bunting et al	451	59	
	5,605,198	2/25/1997	Tibblits et al	175	432	
	5,605,199	2/25/1997	Newton	175	432	
	5,611,649	3/18/1997	Matthias	407	118	
	5,617,928	4/8/1997	Matthias et al	175	432	
	5,622,233	4/22/1997	Griffin	175	432	
	5,624,068	4/29/1997	Waldenstrom et al	228	262.21	
	5,630,479	5/20/1997	Dennis	175	426	
	5,647,449	7/15/1997	Dennis	175	434	
GP	5,667,028	9/16/1997	Truax et al	175	428	

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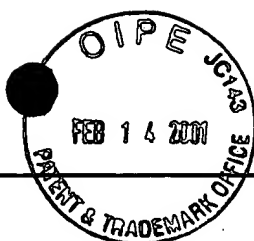
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Docket Number (Optional)
6056 PApplication Number
09/494,240Applicant
Pope, et al.Filing Date
January 30, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	2,992,900	7/18/1961	Bovenkerk	23	209.1	
↑	3,031,269	4/24/1962	Bovenkerk	23	209.1	
	3,097,929	7/19/1963	Ragan	25	156	
	3,150,413	9/29/1964	Zeltlin et al	18	16.5	
	3,201,828	8/24/1965	Fryklung	18	16.5	
	3,292,997	12/20/1966	Strong	23	209.2	
	3,297,407	1/10/1967	Wentorf, Jr.	23	209.1	
	3,407,445	10/29/1968	Strong	18	34	
	3,423,177	1/21/1969	Bovenkerk	23	209.1	
	3,488,153	1/6/1970	Bundy	23	209.1	
	3,574,580	4/13/1971	Stromberg et al	51	307	
	3,597,158	8/3/1971	Horton	23	209.1	
	3,702,573	11/14/1972	Nemeth	76	101	
	3,778,586	12/11/1973	Breton et al	219	76	
	3,816,085	6/11/1974	Hall	51	307	
	3,819,814	6/25/1974	Pope	423	446	
	3,852,045	12/3/1974	Wheeler et al	29	182	
	4,089,933	5/16/1978	Vereschagin et al	423	446	
	4,104,441	8/1/1978	Fedoseev et al	428	408	
	4,196,181	4/1/1980	Vereschagin et al	423	446	
✓	4,231,762	11/4/1980	Hara et al	51	309	
BP	4,260,397	4/7/1981	Bovenkerk	51	307	

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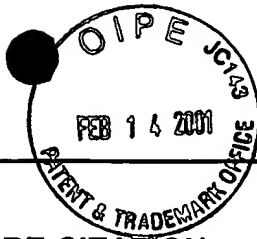
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Form PTO-1449		Docket Number (Optional) 6056 P	Application Number 09/494,240
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant Pope, et al.	
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,260,397	4/7/1984	Bovenkerk	51	307	
BP ↑	4,289,123	9/15/1981	Dunn	128	84R	
	4,311,490	1/19/1982	Bovenkerk et al	51	307	
	4,380,471	4/19/1983	Lee et al	419	11	
	4,518,659	5/21/1985	Gigl et al	428	539.5	
	4,525,179	6/25/1985	Gigl	51	309	
	4,604,106	8/5/1986	Hall et al	51	293	
	4,534,934	8/13/1985	Cho	419	6	
	4,610,699	9/9/1986	Yazu et al	51	309	
	4,662,348	5/5/1987	Hall et al	125	30R	
	4,766,040	8/23/1988	Hillert et al	428	552	
	4,778,486	10/18/1988	Csillag et al	51	309	
	4,797,241	1/10/1989	Peterson et al	264	63	
	4,797,326	1/10/1989	Csillag	428	552	
	4,824,442	4/25/1989	Cerceau	51	293	
	4,925,701	5/15/1990	Jansen et al	427	38	
	4,931,068	1/5/1990	Dismukes et al	51	293	
	4,935,200	1/19/1990	LaSalle et al	420	3	
	4,940,404	7/10/1990	Ammon et al	419	28	
4,961,383	10/9/1990	Fishman et al	102	517		
↓	4,966,750	10/30/1990	LaSalle et al	420	3	
BP	5,009,673	4/23/1991	Cho	51	293	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BP	5,022,894	6/11/1991	Vagarall et al	51	293	
	5,335,738	8/9/1994	Waldenstrom et al	175	420.2	
BP	5,052,339	10/1/1991	Vakeris et al	118	723	
BP	Re 33,767	12/10/1991	Christini et al	428	544	
	5,080,752	1/14/1992	Kabacoff et al	156	603	
	5,082,359	1/21/1992	Kirkpatrick	359	642	
	5,211,726	5/18/1993	Slutz et al	51	293	
	5,391,407	2/21/1995	Dearnaley	427	527	
	5,391,408	2/21/1995	Shibata et al	427	577	
	5,415,704	5/16/1995	Davidson	148	316	
	5,660,075	8/26/1997	Johnson et al	72	467	
	5,518,969	5/21/1996	Ragan	501	32	
	5,525,537	6/11/1996	Zachal et al	437	103	
	5,556,464	9/17/1996	Tanabe et al	117	106	
BP	5,571,616	11/5/1996	Phillips et al	428	336	
	5,593,719	1/14/1997	Dearnaley et al	427	2.26	
BP	5,633,087	5/27/1997	Simpson	428	408	
BP	5,725,573	3/10/1998	Dearnaley et al	632	2	
BP	5,766,394	6/16/1998	Anderson et al	156	89.11	

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